

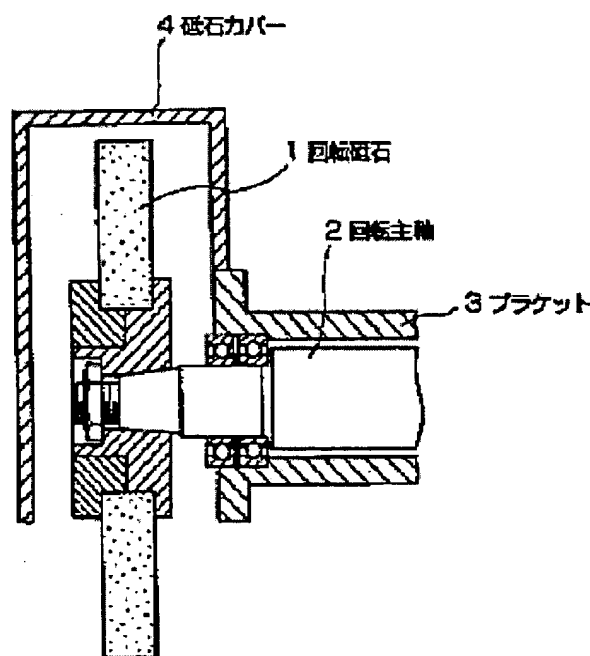
## POLISHING AND GRINDING HAVING DAMPING PROPERTIES AND DEVICE FOR CUTTING WORK

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### Abstract of JP8276364

**PURPOSE:** To restrain adhered layers from being formed out of splashed powder into the inner surface of a grinding wheel cover by forming a flame sprayed layer made of a tungsten carbide group sintered hard alloy the thickness of which is equivalent to specified Z thickness of the grinding wheel cover made of a steel plate at least in the inner surface of the grinding wheel cover made of a steel plate.

**CONSTITUTION:** A grinding wheel cover 4 made of a steel plate is formed out of a carbon steel plate as thin as roughly 1mm, and a flame sprayed layer is formed in the inner surface of the aforesaid cover by the use of tungsten carbide group sintered hard alloy powder. The thickness of the flame sprayed layer is set at 10 to 30% thickness of the grinding wheel cover 4. The aforesaid flame sprayed layer can be formed by plasma spray coating using tungsten carbide group sintered hard alloy powder. In this case, no desired damping properties can be obtained if the thickness of the flame sprayed layer is less than 10%, and time for plasma spray coating is lengthened, and the grinding wheel cover 4 is changed in quality if the thickness exceeds 30%. Thus as mentioned above, damping properties can thereby be enhanced, and the grinding wheel can thereby be made larger in size and higher in output power.



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